

APPENDIX A

Detailed Agenda

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Aviation Fatigue Management Symposium: Partnerships for Solutions

June 17 – 19, 2008

Tuesday, June 17, 2008

Joint Meeting

Parallel Sessions

Discussion Groups

08:00 – 09:00 (GRAND BALLROOM)

OPENING SESSION

Symposium Host: Mr. James Ballough, Director, Flight Standards Service, Federal Aviation Administration

08:00 – 08:10	Opening Comments	Mr. James Ballough, Flight Standards Service, Federal Aviation Administration
08:10 – 08:30	Keynote Address	Mr. Robert A. Sturgell, Acting Administrator, Federal Aviation Administration
08:30 – 08:50	NTSB Address	Mr. Robert Sumwalt, Vice Chairman, National Transportation Safety Board
08:50 – 09:00	Symposium Agenda Overview	Melissa M. Mallis, Ph.D., Institutes for Behavior Resources, Inc.

09:00 – 10:00 (GRAND BALLROOM)

OPERATIONAL RELEVANCE OF FATIGUE

Chair: Melissa M. Mallis, Ph.D., Institutes for Behavior Resources, Inc.

09:00 – 10:00	Fatigue: Where Biology Meets Technology	David F. Dinges, Ph.D., University of Pennsylvania School of Medicine
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10:00 – 10:15 **Break**

10:15 – 11:30 (GRAND BALLROOM)

OPERATIONAL DRIVERS OF FATIGUE: NTSB FINDINGS

Chair: Vern Ellingstad, Ph.D., National Transportation Safety Board

10:15 – 10:20	Panel Introduction	Vern Ellingstad, Ph.D., National Transportation Safety Board
10:20 – 10:40	Operational Factors Contributing to Fatigue During Flight Operations	Malcolm Brenner, Ph.D., National Transportation Safety Board
10:40 – 11:00	Factors Contributing to Fatigue in Air Traffic Control Settings	William J. Bramble, Jr., Ph.D., National Transportation Safety Board
11:00 – 11:15	The Evolution of NTSB Fatigue Related Recommendations	Jana Price, Ph.D., National Transportation Safety Board
11:15 – 11:30	Q & A	Panel Members

11:30 – 12:45 **Lunch**

12:45 – 14:00 (GRAND BALLROOM)**TOP-DOWN SAFETY FOCUS: FATIGUE RISK MANAGEMENT SYSTEMS (FRMS)***Chair: Captain Paul McCarthy, IFALPA Representative to ICAO*

12:45 – 12:50	Panel Introduction	Captain Paul McCarthy, IFALPA Representative to ICAO
12:50 – 13:10	SMS: Improving Tomorrow... Today!	Captain Michael D. New, Ph.D., Delta Air Lines, Inc.
13:10 – 13:30	Fatigue Risk Management Systems within SMS	R. Curtis Graeber, Ph.D., Boeing Commercial Airplanes
13:30 – 13:50	Operational Benefits of an FRMS	Captain Don Gunther, Continental Airlines
13:50 – 14:00	Q & A	Panel Members

14:00 – 14:15**Break****PARALLEL SESSIONS****14:15 – 15:45 (GRAND BALLROOM A)****OPERATIONAL EVIDENCE OF FATIGUE: FLIGHT OPERATIONS***Chair: Mark R. Rosekind, Ph.D., Alertness Solutions*

14:15 – 14:20	Panel Introduction	Mark R. Rosekind, Ph.D., Alertness Solutions
14:20 – 14:45	Effects of Fatigue on Operational Performance	John A. Caldwell, Ph.D., Archinoetics, LLC
14:45 – 15:10	Sleep and Psychomotor Performance during Commercial Ultra-Long Range Flights	Leigh Signal, Ph.D., Massey University
15:10 – 15:35	Effects of Fatigue on Threat and Error Management Behavior of Long-Haul Flight Crew	Matthew Thomas, Ph.D., University of South Australia
15:35 – 15:45	Q & A	Panel Members
15:45 – 16:00	Introduction to Discussion Groups	Conference Facilitator

14:15 – 15:45 (MEZZANINE 3)**OPERATIONAL EVIDENCE OF FATIGUE: SHIFTWORK OPERATIONS***Chair: Mr. John Goglia, Aviation Technology Solutions*

14:15 – 14:20	Panel Introduction	Mr. John Goglia, Aviation Technology Solutions
14:20 – 14:45	Sleep/wake Cycles and Performance of ATC operators	David Schroeder, Ph.D., retired FAA
14:45 – 15:10	Views of Maintenance Fatigue Based Mostly on FAA Empirical Studies	William B. Johnson, Ph.D., Human Factors in Maintenance Systems, Federal Aviation Administration
15:10 – 15:35	Fatigue in Aviation Inspections: Sleep and Performance Data	Colin G. Drury, Ph.D., University at Buffalo: SUNY

Wednesday, June 18, 2008

08:00 – 08:30 (GRAND BALLROOM)

OPENING COMMENTS

Conference Facilitators

PARALLEL SESSIONS

08:30 – 10:00 (GRAND BALLROOM A)

CURRENT STATE OF MITIGATION: FLIGHT OPERATIONS

Chair: Mr. Robert Talcott Francis II, Farragut International

08:30 – 08:35	Panel Introduction	Mr. Robert Talcott Francis II, Farragut International
08:35 – 09:00	The easyJet Fatigue Risk Management System (FRMS)	Capt. Simon Stewart, easyjet Airline, Ltd. London City University
09:00 – 09:25	Correlation between Fatigue Reports and Flight Performance Deviations	Jack Rubino, M.D., United Airlines Flight Center
09:25 – 09:50	Crewmember Flight, Duty and Rest Requirements: FAA Regulations, Initiatives and Challenges	Mr. Gregory Kirkland, Air Transportation Div, Federal Aviation Administration
09:50 – 10:00	Q & A	Panel Members

08:30 – 10:00 (MEZZANINE 3)

CURRENT STATE OF MITIGATION: SHIFTWORK OPERATIONS

Chair, Terry Allard, Ph.D., Office of Naval Research

08:30 – 08:35	Panel Introduction	Terry Allard, Ph.D., Office of Naval Research
08:35 – 09:00	NAV CANADA's Fatigue Management Program	Ann Lindeis, Ph.D., NAVCANADA
09:00 – 09:25	Fatigue Risk Management Systems in the Canadian Aviation Maintenance Industry	Ms. Jacqueline Booth-Bordeau, Transport Canada Civil Aviation
09:25 – 09:50	Overview of Fatigue Mitigation Initiatives in the FAA Air Traffic Organizations	Mr. Kenneth Myers, Mgr QA/Safety, Air Traffic Organization, Federal Aviation Administration
09:50 – 10:00	Q & A	Panel Members

10:00 – 10:15

Break

10:15 – 11:45 (GRAND BALLROOM A)**FRMS: MEASUREMENT AND EVALUATION OF EFFECTIVENESS***Chair: Torbjorn Akerstedt, Ph.D., Stress Research Institute, Stockholm University and Clinical Neuroscience, Karolinska Institutet*

10:15 – 10:20	Panel Introduction	Torbjorn Akerstedt, Ph.D., Stress Research Institute, Stockholm University and Clinical Neuroscience, Karolinska Institutet
10:20 – 10:45	Evaluation of Fatigue Management Programs	Ann Williamson, Ph.D., University of New South Wales
10:45 – 11:05	Potential for Modeling Tools	Steven R. Hursh, Ph.D., Institutes for Behavior Resources
11:05 – 11:30	Fatigue Management, Assessment and Evaluation: An Operational Perspective	Capt. Greg Fallow, Air New Zealand, IFALPA
11:30 – 11:45	Q & A	Panel Members

11:45 – 13:15***Lunch*****13:15 – 14:45 DISCUSSION GROUP SESSIONS: FUTURE FATIGUE MITIGATION INITIATIVES (5 TOPIC AREAS)**

- International Long Haul Operations: Passenger and Cargo (PAVILION 23)
- Domestic Operations: Transcontinental Focus (MEZZANINE 2)
- Domestic Operations: Multi Leg/ Short Haul Focus (PAVILION 22)
- Air Traffic Control and Tech Operations (PAVILION 21)
- Maintenance, Ramp Operations and Dispatch (MEZZANINE 1)

14:45 – 15:00***Break*****15:00 – 17:00 DISCUSSION GROUP SESSIONS: PREPARATION OF FINAL REPORTS (5 TOPIC AREAS)**

- International Long Haul Operations: Passenger and Cargo (PAVILION 23)
- Domestic Operations: Transcontinental Focus (MEZZANINE 2)
- Domestic Operations: Multi Leg/ Short Haul Focus (PAVILION 22)
- Air Traffic Control and Tech Operations (PAVILION 21)
- Maintenance, Ramp Operations and Dispatch (MEZZANINE 1)

17:00***Day 2 Symposium Adjourns***

Thursday, June 19, 2008

08:00 – 11:30 (GRAND BALLROOM)

REPORT OUT TO SENIOR FAA AND SYMPOSIUM WITH DISCUSSION SUMMARY AND HIGHLIGHTS

Co-Chair A: Gregory Belenky, M.D., Washington State University

Co-Chair B: Steven R. Hursh, Ph.D., Institutes for Behavior Resources, Inc.

Co-Chair C: Martin Moore-Ede, M.D., Ph.D., CIRCADIAN

08:00 – 08:15	Panel Introduction	Chairs
08:15 – 08:45	International Long Haul Operations: Passenger and Cargo Summary	Discussion Group Spokesperson
08:45 – 09:15	Domestic Operations: Transcontinental Focus Summary	Discussion Group Spokesperson
09:15 – 09:45	Domestic Operations: Multi Leg/ Short Haul Focus	Discussion Group Spokesperson

09:45 – 10:00

Break

10:00 – 10:30 (GRAND BALLROOM)

REPORT OUT TO SENIOR FAA AND SYMPOSIUM WITH DISCUSSION

10:00 – 10:30	Air Traffic Control and Tech Operations Summary	Discussion Group Spokesperson
10:30 – 11:00	Maintenance, Ramp Operations and Dispatch Summary	Discussion Group Spokesperson
11:00 – 11:30	Panel Summary and Conclusions	Chairs

11:30 – 12:00 (GRAND BALLROOM)

CLOSING ADDRESS AND SYMPOSIUM CONCLUSIONS

Symposium Host: Mr. James Ballough, Director, Flight Standards Service, Federal Aviation Administration

11:30 – 11:35	Introduction	Mr. James Ballough, Director, Flight Standards Service, Federal Aviation Administration
11:35 – 12:00	FAA Closing Comments	Mr. Nicholas A. Sabatini, Assistant Administrator For Aviation Safety Federal Aviation Administration

12:00

Symposium Adjourns